

Amendments to the Claims

1. *(Currently Amended)* A magnetoresistive speed sensor (100) ~~with a~~ comprising a permanent magnet (10) and ~~with a~~ magnetic field detecting sensor (A, B) ~~for a magnetic~~ field for detecting the speed of an object rotating about an x-axis, wherein
~~_____ the magnetoresistive speed sensor (100) has a measuring direction (ME), characterized in that the measuring direction (ME) is aligned to be parallel with the x-direction, and two magnetic field detecting sensors (A, B) are disposed at a distance from one another and perpendicular to the measuring direction.~~
2. *(Currently Amended)* A magnetoresistive speed sensor as claimed in Claim 1, characterized in that the magnetic field detecting sensors (A, B) are disposed symmetrically in relation to the x-axis on the y-axis.
3. *(Currently Amended)* A magnetoresistive speed sensor as claimed in ~~Claim 1 or 2, as claimed in Claim 1,~~ characterized in that each of the magnetic field detecting sensors (A, B) is a Wheatstone bridge (11).
4. *(Currently Amended)* A magnetoresistive speed sensor as claimed in ~~Claim 1 or 2, as claimed in Claim 1,~~ characterized in that each of the magnetic field detecting sensors (A, B) is a half bridge.
5. *(Currently Amended)* A magnetoresistive speed sensor as claimed in ~~any one of Claims 1 to 4, as claimed in Claim 1,~~ characterized in that the permanent magnet (10) has a magnetic field component in the x-direction.
6. *(Currently Amended)* A use of a magnetoresistive speed sensor (100) ~~as claimed in any one of Claims 1 to 5 as claimed in Claim 1, in automotive engineering, in automotive engineering, in particular for monitoring the speed of a crankshaft or camshaft, or in an ABS system.~~

7. (*New*) The use of a magnetoresistive speed sensor as recited in Claim 6, wherein the automotive engineering includes at least one of the following: crankshaft speed monitoring, camshaft speed monitoring, or monitoring of an anti-lock braking (ABS) system.

8. (*New*) A magnetoresistive speed sensor comprising a permanent magnet and a magnetic field detecting sensor for detecting the speed of an object rotating about an x-axis, wherein

the magnetoresistive speed sensor has a measuring direction, characterized in that the measuring direction is aligned parallel with the x-direction, and two magnetic field detecting sensors are disposed at a distance from one another symmetrically in relation to the x-axis on the y-axis and perpendicular to the measuring direction.

9. (*New*) The magnetoresistive speed sensor as recited in Claim 8, wherein each of the magnetic field detecting sensors is a Wheatstone bridge.

10. (*New*) The magnetoresistive speed sensor as recited in Claim 8 wherein each of the magnetic field detecting sensors is a half bridge.

11. (*New*) The magnetoresistive speed as recited in Claim 8, wherein the permanent magnet has a magnetic field component in the x-direction.

12. (*New*) The magnetoresistive speed as recited in Claim 9, wherein the permanent magnet has a magnetic field component in the x-direction.

13. (*New*) The magnetoresistive speed as recited in Claim 10, wherein the permanent magnet has a magnetic field component in the x-direction.

14. (*New*) A magnetoresistive speed sensor comprising,
a permanent magnet having a magnetic field component in the x-direction; and

a magnetic field detecting sensor for detecting the speed of an object rotating about an x-axis, the magnetic field detecting sensor being a Wheatstone bridge, wherein the magnetoresistive speed sensor has a measuring direction, characterized in that the measuring direction is aligned parallel with the x-direction, and two magnetic field detecting sensors are disposed at a distance from one another symmetrically in relation to the x-axis on the y-axis and perpendicular to the measuring direction.